Malachi Randall

AI/ML Engineer, Machine Learning Systems

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SUMMARY

AI/ML Engineer with four years of experience building **machine learning systems** from experimentation through dependable software use. Develops supervised learning models, prepares and validates training data, evaluates model behavior, and connects inference services with practical product and operational workflows. Recent work includes Python development, feature engineering, reproducible experiments, **error analysis**, API integration, monitoring, production troubleshooting, and technical documentation. Works closely with software, data, product, and business partners, translating ambiguous **problem statements** into clear technical approaches and useful deliverables. Careful validation and concise communication help teams make sound decisions without losing sight of application behavior. Ready to contribute this blend of **analytical problem solving** and hands on engineering to Northstar Logic Labs, helping turn data into reliable software capabilities that serve customers and internal teams.

STRENGTHS

Analytical problem solving
When model behavior looked unexpected, traced inputs and errors carefully, giving partners a practical next step.

Clear technical communication
Turned experiment results and tradeoffs into concise records, so product partners could make confident decisions.

Reliable data preparation
Validated source information before modeling work moved forward; peers came to rely on those checks.

Collaborative delivery
Worked across software, data, and product groups, keeping handoffs useful when requirements changed midstream.

Production troubleshooting
Investigated inference issues with structure and patience, restoring dependable behavior and leaving clearer records behind.

SKILLS

Machine learning
Model evaluation
Data preparation
Software development
Python programming
Analytical problem solving
Technical communication
Technical documentation

EXPERIENCE

AI/ML Engineer, Machine Learning Systems

Prairie Signal Systems July 2024 - Present Madison, WI

Owns **machine learning** initiatives from problem definition through production support, covering Python models, data workflows, inference services, evaluation, monitoring, and technical communication. Partners with software, data, product, and **business stakeholders** to turn uncertain requests into tested capabilities with clear decisions and dependable handoffs.

- Built Python classification models for operational decisions, improving repeatable **inference** workflows for product teams.
- Created ranking **experiments** with feature validation, giving stakeholders clearer evidence for model selection decisions.
- Connected **inference services** with software APIs, reducing friction between tested models and application workflows.
- Investigated production errors through structured analysis, restoring dependable behavior and documenting corrective decisions.
- Established model monitoring checks, helping engineering partners spot drift and **troubleshooting** needs sooner.
- Prepared technical decision records that clarified assumptions, tradeoffs, inputs, and expected deliverables for reviews.

Junior Machine Learning Engineer, Applied Modeling

Lakeshore Analytics Works September 2022 - June 2024 Milwaukee, WI

Supported supervised learning projects across **data preparation**, experimentation, evaluation, documentation, and software testing. Worked with senior engineers and cross functional partners to validate source information, investigate model behavior, and improve repeatability from training through inference.

- Implemented **supervised learning** pipelines in Python, creating consistent paths from prepared data through tested predictions.
- Transformed training datasets with **feature engineering**, improving consistency across **experiments** and inference inputs.
- Compared model behavior with evaluation **metrics** and **error analysis**, guiding practical selection for operational use.
- Validated source data and assumptions before review, preventing avoidable issues in downstream modeling work.
- Documented experiments and technical findings, helping software and product partners act on clear evidence.
- Organized tests, templates, and handoff records, making recurring model work easier for peers to repeat.

Supervised learning

Feature engineering

Model experiments

Inference services | API integration

Production monitoring

Error analysis

LANGUAGES

English — Native

Spanish — Intermediate

MY CAREER

- AI/ML Engineer, Machine Learning Systems at Prairie Signal Systems (2.2 Years)
- Junior Machine Learning Engineer, Applied Modeling at Lakeshore Analytics Works (1.8 Years)

PROJECTS

Operational Model Evaluation

LEADERSHIP & AWARDS

- Recognition for dependable model evaluation workflows and clear technical decision records, Prairie Signal Systems, 2025.
- Team distinction for practical Python modeling support and careful data validation, Lakeshore Analytics Works, 2024.

EDUCATION

Bachelor's Degree in Computer Science

University of Wisconsin Milwaukee | GPA: 3.7 | 2022 | Milwaukee, WI

Coursework: *Machine Learning, Data Structures, Algorithms, Software Engineering, Statistics*

CERTIFICATIONS

- Machine Learning Specialization 2023
- TensorFlow Developer Certificate 2024

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, Bash
- **Machine Learning:** Supervised learning, Classification, Ranking
- **Model Evaluation:** Metrics, Experiments, Error analysis
- **Data Preparation:** Data validation, Data transformation, Feature engineering
- **Software Development:** Python development, Unit testing, Integration testing
- **Inference Services:** Model serving, Prediction APIs, Batch inference
- **Application Integration:** APIs, REST services, Software workflows
- **Production Operations:** Deployment, Monitoring, Troubleshooting
- **Technical Documentation:** Decision records, Experiment notes, Handoff documentation
- **Stakeholder Collaboration:** Software teams, Data teams, Product partners
- **Data Science Methods:** Training data, Testing data, Inference data
- **Analytical Methods:** Problem framing, Assumption checks, Root cause analysis

PROFESSIONAL AFFILIATIONS

- Association for Computing Machinery, professional member focused on software and machine learning practice.
- IEEE Computer Society, member engaged with engineering standards, technical learning, and responsible computing.

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST